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agent and "industrial controller" and device

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### Multi-language generation of control program for an industrial controller

MS McGrath, LC McKinnon, JC Pattee, GC ... - US Patent 5,504,902, 1996 - Google Patents  
... Examiner—John Q. Chavis Attorney, **Agent**, or Firm ... control program executable by an  
**industrial controller**, wherein the ... displayed on a display **device** along with ...

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### Industrial controller with highly distributed processing

DS Pieronek, JJ Hodorowski - US Patent 5,452,201, 1995 - Google Patents  
... Examiner—James P. Trammell Attorney, **Agent**, or Firm ... from the controller to operate  
**devices** on the ... for most control inputs to the **industrial controller** may be ...

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### Industrial controller with decompilable user program

NW Knutsen - US Patent 5,005,152, 1991 - Google Patents  
... Shaw Assistant Examiner—PV Kulik Attorney, **Agent**, or Firm ... on floppy disk or mag-  
**INDUSTRIAL CONTROLLER** WITH netic ... which of the many ladder ing **devices** on the ...

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### Object-oriented programmable industrial controller with distributed interface architecture

KC Crater, DL Pierson, WO Schley - US Patent 6,201,996, 2001 - Google Patents  
... 13,2001 (54) OBJECT-ORIENTED PROGRAMMABLE **INDUSTRIAL CONTROLLER** WITH DISTRIBUTED  
INTERFACE ... Grant Assistant Examiner—Kidest Bahta (74) Attorney, **Agent**, or Firm ...

[Cited by 17](#) - [Related articles](#) - [All 4 versions](#)

### Industrial control system device

M Kosem, AJ Cachat, TD Toth - US Patent 5,068,778, 1991 - Google Patents  
... Assistant Examiner—Jim Trammell Attorney, **Agent**, or Firm ... to a control sys- tem **device**  
that can ... comprised of a multi-function **industrial controller** capable of ...

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### Method and systems for use with an industrial controller

KG Maxwell, MS McGrath, JA Millinton... - US Patent 5,508,909, 1996 - Google Patents  
... Primary Examiner—Joseph Ruggiero Attorney, **Agent**, or Firm ... program executable by an  
**industrial controller**, wherein a ... program is displayed on a display **device**. ...

[Cited by 7](#) - [Related articles](#) - [All 4 versions](#)

### Using radio frequency identification in agent-based control systems for industrial ...

P Vrba, F Macůrek, V Ma•ík - Engineering Applications of Artificial Intelligence, 2008 - Elsevier  
... in order to ensure line-of-sight between the reader **device** and the ... Additionally,  
with a long history of researching into the **agent**-based manufacturing control ...

[Cited by 8](#) - [Related articles](#) - [All 2 versions](#)

Interface between **industrial controller** components using common memory

DA DiCarlo, WE Floro, M Keith, JJ Baier, JH ... - US Patent 5,416,908, 1995 - Google Patents  
... 16, 1995 [54] INTERFACE BETWEEN **INDUSTRIAL CONTROLLER** COMPONENTS USING ... Examiner—Viet Vu Attorney, **Agent**, or Firm ... condition of selected sensing **devices** on the ...

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Adaptive alarm controller changes multiple inputs to **industrial controller** in order for state ...

OJ Struger, EJ Klimas - US Patent 5,089,984, 1992 - Google Patents  
... Assistant Examiner—Mehmet Geckil Attorney, **Agent**, or Firm ... and outputs to and from the **industrial controller**. ... 20 that services the respective output **device**. ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

Programming apparatus for an **industrial controller** using two-dimensional graphic behavior ...

MJ Schwenke - US Patent 5,321,603, 1994 - Google Patents  
... 54] PROGRAMMING APPARATUS FOR AN **INDUSTRIAL CONTROLLER** USING TWO ... Assistant Examiner—Jim Trammell Attorney, **Agent**, or Firm ... a manual data entry **device** and a ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

**Industrial controller** with variable I/O update rate

DJ Dombrosky, KR Harris - US Patent 5,099,449, 1992 - Google Patents  
... Assistant Examiner—Larry Donaghue Attorney, **Agent**, or Firm ... monitoring the operation of the **industrial controller** and for ... a dc input or output **device**, or as an ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

**Industrial controller** permitting removal and insertion of circuit cards while under power

RE Schultz, WE Floro, O Schmidt - US Patent 5,983,298, 1999 - Google Patents  
... Examiner—Rupal D. Dharia Attorney, **Agent**, or Firm ... between the card and the **industrial controller** has stabilized ... diodes on other memory type **devices** attached to ...

[Cited by 7](#) - [Related articles](#) - [All 2 versions](#)

Protective case for an **industrial controller**

A Le Boennec, R Jean, B Dalban - US Patent 5,202,815, 1993 - Google Patents  
... 54] PROTECTIVE CASE FOR AN **INDUSTRIAL CONTROLLER** [75] Inventors ... Examiner—Gerald P. Tolin Attorney, **Agent**, or Firm ... case with an electronic **device**, including an ...

[Cited by 3](#) - [Related articles](#) - [All 3 versions](#)

**Device** for aiding maintenance of an electromechanical installation having automatic ...

JL Chanvin, A Cote, G Menou - US Patent 4,847,894, 1989 - Google Patents  
... Examiner—Keith E. George Attorney, **Agent**, or Firm ... installation having a programmable **industrial controller**; FIG. 4 is a block diagram of a **device** according to ...

[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

**Industrial controller** having redundancy and using connected messaging and connection ...

MA Flood, ME Taylor - US Patent 5,963,448, 1999 - Google Patents  
... 5,1999 [54] **INDUSTRIAL CONTROLLER** HAVING REDUNDANCY AND USING CONNECTED MESSAGING AND ... Meng-Ai T. An Assistant Examiner—John Ciccozzi Attorney, **Agent**, or Firm ...

[Cited by 8](#) - [Related articles](#) - [All 2 versions](#)

### Start-up pulse suppression circuit for **industrial controller** output

DJ Bolda, JC Clemente, MA Feavel, AG Gibart ... - US Patent 5,243,232, 1993 - Google Patents  
... Examiner—Terry D. Cunningham Attorney, **Agent**, or Firm ... supply 24, associated with  
the controlled **device** 22 and ... the power supply of the **industrial controller** 10 ...  
[Cited by 4](#) - [Related articles](#) - [All 2 versions](#)

### **Industrial controller** with flexible data structures

MS Khan, DB Sumerauer... - US Patent 6,088,624, 2000 - Google Patents  
... Grant Assistant Examiner—McDieunal Marc Attorney, **Agent**, or Firm ... ABSTRACT An improvement  
in an **industrial controller** having a ... with each I/O **device** to define ...  
[Cited by 3](#) - [Related articles](#) - [All 2 versions](#)

### Enabling federated control by developing a distributed control application platform

AJR Aendenroomer, D ZhongQiang, H Hao, Q ... - ... Conference on Industrial Informatics, 2003. INDIN ..., 2003 -  
ieeexplore.ieee.org  
... which are the active entities, actors, **agents** etc ... the DCAP platform supports multiple  
**devices** over multiple ... For example, for an **industrial controller** (where the ...  
[Cited by 6](#) - [Related articles](#) - [All 2 versions](#)

### **Industrial controller** decompiler accommodating an expandable instruction set

AS Ansari, MS Khan, JW Brooks - US Patent 5,881,290, 1999 - Google Patents  
... Assistant Examiner—Tuan Q. Dam Attorney, **Agent**, or Firm ... that may be used to program  
the **industrial controller**. ... program 50 for a particular **device** or process. ...  
[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

### **Industrial controller** permitting program editing during program execution

DA Johnston, CM Rischar, RE Schultz, O ... - US Patent 5,781,776, 1998 - Google Patents  
... 14, 1998 [54] **INDUSTRIAL CONTROLLER** PERMITTING PROGRAM EDITING DURING PROGRAM EXECUTION  
[75 ... P. Trammell Assistant Examiner—Kakali Chaki Attomev, **Agent**, or Finn ...  
[Cited by 7](#) - [Related articles](#) - [All 2 versions](#)

### The structured design of an industrial robot controller

G Ferretti, G Magnani, P Putz, P Rocco - Control Engineering Practice, 1996 - Elsevier  
... The design of a new **industrial controller** is tackled according ... defined by the European  
Space **Agency** (ESA) for ... SDP), and process, or **device**, and controloriented ...  
[Cited by 8](#) - [Related articles](#) - [BL Direct](#) - [All 2 versions](#)

### **Industrial controller** with display of rung execution

RE Schultz, CM Rischar, DR Rohn - US Patent 5,812,133, 1998 - Google Patents  
... Examiner—Paul A. Bell Attorney, **Agent**, or Firm ... the present invention provides an  
**industrial controller** having an ... and a user input **device** identifies at least ...  
[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

### Layered supervisory control architecture for reconfigurable automation

BL Huff, CR Edwards - Production Planning & Control, 1999 - informaworld.com  
... A **device** control **agent** (DCA) provides the interface between ... the potential behaviour  
or functionality of the **device**. ... In order for an **industrial controller** to be ...  
[Cited by 5](#) - [Related articles](#) - [BL Direct](#) - [All 2 versions](#)

### Adaptive controller in a process control system and a method therefor

M Sklaroff - US Patent 5,170,341, 1992 - Google Patents

... Examiner—Thomas E. Brown Attorney, **Agent**, or Firm ... signal inputted to the difference **device** initiates an ... Sheets SETPOINT (SP) 20 - **INDUSTRIAL CONTROLLER** Co PV ...

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### Redundant **industrial controller** storing module and chassis level redundancy status

MA Flood - US Patent 5,997,166, 1999 - Google Patents

... Assistant Examiner—Ramesh Patel Attorney, **Agent**, or Firm ... include start up of the **industrial controller**, removal or ... A **device** object 92 also exists within each ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

### **Industrial controller** card rack with heat transfer across card edges

JC Clemente, B Fleischman, J Kitscha, P ... - US Patent 5,436,794, 1995 - Google Patents

... Examiner—Gregory D. Thompson Attorney, **Agent**, or Firm ... exploded'cutaway view of an **industrial controller** showing a ... between the heat dissipating **devices** and the ...

[Cited by 5](#) - [Related articles](#) - [All 2 versions](#)

### Bar chart editor for **industrial controller**

MJ Schwenke, JA Sinclair - US Patent 5,940,293, 1999 - Google Patents

... 17,1999 [54] BAR CHART EDITOR FOR **INDUSTRIAL CONTROLLER** [75] Inventors: Marvin ... William Grant Assistant Examiner—Carolyn T Baumgardner Attorney, **Agent**, or Firm ...

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### **Industrial controller** programming method using external connection database

MW Schmidt - US Patent 5,564,049, 1996 - Google Patents

... R. Lintz Attorney, **Agent**, or Firm—Keith M. Baxter; John M. Miller; John J. Horn [57] ABSTRACT Subprograms together making up an **industrial controller** program ...

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### DC input circuit with controlled leakage current

TJ Murphy, TA Weber - US Patent 5,111,070, 1992 - Google Patents

... R. LaRoche Assistant Examiner—Tan Dinh Attorney, **Agent**, or Firm ... curren( flow imo {he D(, { ing **device** into the input of the **industrial controller** ..... ...

[Cited by 4](#) - [Related articles](#) - [All 2 versions](#)

### **Industrial controller** compiler with expandable instruction set

JW Brooks, RR Husted, CM Rischar, AS ... - US Patent 5,819,097, 1998 - Google Patents

... Examiner—Tuan Q. Dam Attorney, **Agent**, or Firm ... may be used to program the **industrial controller**, the new ... a control program for a particular **device** or process. ...

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### **Device** for method for manipulating a part

CR Wojcienchowski, DS Steele, HJ Scudder ... - US Patent 4,802,195, 1989 - Google Patents

... Examiner—David P. Porta Attorney, **Agent**, or Firm ... programma- ble controller 20, an **industrial controller** 21, a ... that is contemplated that the **device** and methods ...

[Cited by 4](#) - [Related articles](#) - [All 5 versions](#)

### Serial data isolator industrial control system providing intrinsically safe operation

U Behrens, MW Kessler, RD Slater, RE ... - US Patent 6,037,857, 2000 - Google Patents  
... Donnie L. Crosland Attorney, **Agent**, or Firm ... present invention provides an **industrial controller** reading inputs from an industrial **device** and providing ...  
[Cited by 3](#) - [Related articles](#) - [All 4 versions](#)

### Template language for **industrial controller** programming

MJ Schwenke, JA Sinclair, RJ Staron - US Patent 6,553,268, 2003 - Google Patents  
... 22,2003 (54) TEMPLATE LANGUAGE FOR **INDUSTRIAL CONTROLLER** PROGRAMMING (75) Inventors ...  
by examiner Primary Examiner—Ramesh Patel (74) Attorney, **Agent**, or Firm ...  
[Cited by 3](#) - [Related articles](#) - [All 4 versions](#)

### High reliability **industrial controller** using tandem independent programmable gate-arrays

DA Vasko - US Patent 6,463,339, 2002 - Google Patents  
... Examiner—Ramesh Patel (74) Attorney, **Agent**, or Firm ... according to programmable memory  
**industrial controller** that has a ... and reference must be **device** complexity. ...  
[Cited by 3](#) - [Related articles](#) - [All 2 versions](#)

### Axis editor for **industrial controller** programming

MJ Schwenke, JA Sinclair... - US Patent 6,076,020, 2000 - Google Patents  
... Examiner—William Grant Assistant Examiner—Ivan Calcano Attorney, **Agent**, or Firm—RA ... an axis behavior profile that represents input **devices**, output **devices** ...  
[Cited by 2](#) - [Related articles](#) - [All 2 versions](#)

### Method of programming industrial controllers with highly distributed processing

J Hodorowski - US Patent 5,530,643, 1996 - Google Patents  
... Assistant Examiner—Steven R. Garland Attorney, **Agent**, or Firm—Keith M. Baxter; John M. Miller ... 7 17 29 ,,,, **DEVICE** DATA PB 109 PRS 109 < **DEVICE** A PB 102 PB ...  
[Cited by 32](#) - [Related articles](#) - [All 2 versions](#)

### **Industrial controller** input/output card providing reflex response

E Dummermuth... - US Patent 6,073,053, 2000 - Google Patents  
... Assistant Examiner—Zoila Cabrera Attorney, **Agent**, or Firm ... Clearly the **device** is not limited to the ... I claim: 1. An **industrial controller** producing electrical ...  
[Cited by 2](#) - [Related articles](#) - [All 2 versions](#)

### Time synchronization system for industrial control network using global reference pulses

LW Esker - US Patent 6,535,926, 2003 - Google Patents  
... Examiner—Saleh Najjar (74) Attorney, **Agent**, or Firm ... a master clock in a first industrial control **device**. ... transmitted by the first **industrial controller** as a ...  
[Cited by 2](#) - [Related articles](#) - [All 2 versions](#)

### Network interface for **industrial controller** providing application programmer interface

S Nair, MJ Gilson - US Patent 6,675,226, 2004 - Google Patents  
... Phuong N Hoang (74) Attorney, **Agent**, or Firm ... networks without requiring rewriting of **industrial controller** software. ... US 6,675,226 B1 **device** on at least one ...  
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

### Interface for **industrial controller** network card

KE Neet, J Bradford, R Lantzy, ME Griffin - US Patent 6,412,032, 2002 - Google Patents  
... Examiner—Harold Kim (74) Attorney, **Agent**, or Firm ... used as an 60 interface between  
an **industrial controller** and a ... The reading **device** copies the contents of the ...  
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

### Safety network for **industrial controller** allowing initialization on standard networks

KW Vandesteeg, DA Vasko, JA Lenner, KH ... - US Patent 6,701,198, 2004 - Google Patents  
... Douglas M. Shute (74) Attorney, **Agent**, or Firm ... that is compatible with conventional  
**industrial controller** networks and ... giving each communi- cating **device** a way ...  
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

### Safety network for **industrial controller** having reduced bandwidth requirements

JA Lenner, DA Vasko, KW Vandesteeg, KH ... - US Patent 6,721,900, 2004 - Google Patents  
... Examiner—Nadeem Iqbal (74) Attorney, **Agent**, or Firm ... BI SAFETY NETWORK FOR **INDUSTRIAL**  
**CONTROLLER** HAVING REDUCED ... appropriate for use in **devices** intended to ...  
[Cited by 1](#) - [Related articles](#) - [All 6 versions](#)

### Parallel process controller

RE Morley - US Patent 4,648,064, 1987 - Google Patents  
... et al 364/200 3,997,879 12/1976 Markley et al 364/900 4,015,243 3/1977 Kurpanek  
et al 364/200 Primary Examiner—Eddie P. Chan Attorney, **Agent**, or Firm ...  
[Cited by 15](#) - [Related articles](#) - [All 3 versions](#)

### **Industrial controller** and network card with buffer negotiation

KE Neet - US Patent 6,463,338, 2002 - Google Patents  
... Primary Examiner—Ramesh Patel (74) Attorney, **Agent**, or Firm ... network 16 may connect  
to the **industrial controller** 12 via ... for a processor or other **device** to poll ...  
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

### Input/output module having a combination input/output point

DR Janke, RR Sabroff... - US Patent 5,440,695, 1995 - Google Patents  
... Examiner—Jonathan Hall Backenstose Attorney, **Agent**, or Firm ... use with a microprocessor  
based **industrial controller**. input **device**, an output point adapted for ...  
[Cited by 3](#) - [Related articles](#) - [All 6 versions](#)

### Walk-through human/machine interface for industrial control

JR Engdahl... - US Patent 6,282,455, 2001 - Google Patents  
... (74) Attorney, **Agent**, or Firm ... or outputs from the controller to operate **devices** on  
the ... Inputs to the **industrial controller** may be discrete binary signals, such ...  
[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

### Apparatus and method for fast FET switching in a digital output **device**

GD Maskovyak, NV Ivanov - US Patent 6,555,935, 2003 - Google Patents  
... 74) Attorney, **Agent**, or Firm—Himanshu S. Amin; Alexander M. Gerasimow; William R.  
Walbrun (57) ABSTRACT An industrial control output **device** is provided which ...  
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### Plug-and-play interface circuit with visual display

LP Chung - US Patent 6,415,337, 2002 - Google Patents

... Sumati Lefkowitz (74) Attorney, **Agent**, or Firm ... port information of each peripheral **device** so that the ... extended to for example **industrial controller** that adapts ...

[Cited by 1](#) - [Related articles](#) - [All 2 versions](#)

### Optimized non-linear effect tapered optical fiber interferometer/switch **device**

P Dumais, S Lacroix, F Gonthier, RJ Black, J ... - US Patent 5,479,546, 1995 - Google Patents

... Examiner—Brian Healy Attorney, **Agent**, or Firm ... OPTICAL FIBER INTERFEROMETER/SWITCH **DEVICE** BACKGROUND OF ... typically a pro- grammable **industrial controller** with a ...

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### Offline micropayments without trusted hardware- •[psu.edu](http://psu.edu) [PDF]

M Blaze, J Ioannidis, AD Keromytis - Lecture Notes in Computer Science, 2002 - Springer

... The users (Payers and Merchants) are assumed to possess some **device** that can perform ... note that these do affect the risk decisions made by the **agents** and thus ...

[Cited by 51](#) - [Related articles](#) - [BL Direct](#) - [All 11 versions](#)

### Diagnostic aid for **industrial controller** using multi-tasking architecture

D Johnston, CM Rischar, J McDonel - US Patent 5,844,795, 1998 - Google Patents

... Ramesh Patel Attorney, **Agent**, or Firm—Keith M. Baxter; John M. Miller; John J. Horn [57] ABSTRACT A task executed on a multi-tasking **industrial controller** is ...

[Cited by 2](#) - [Related articles](#) - [All 2 versions](#)

### Implementation of sensor-based control algorithms in an industrial robot controller

C Carozzi, G Magnani, S Nicolodi - Control Engineering Practice, 1995 - Elsevier

... Nodes 10 and 9 perform **Device** (robot) and Process ... The C3G9000, a stateofheart **industrial controller** manufactured by ... at the European Space **Agency** Research and ...

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### A Real-Time Interface for **Agent**-Based Control

OJL Orozco, JLM Lastra - ieeexplore.ieee.org

... JADE-LEAP is an **agent** platform for constrained **devices** which was implemented in the Pointe Controller in a split- container configuration. ...

### Controller with **agent** functionality

FP Maturana, KH Hall, RJ Staron, P Slechta, ... - US Patent App. 10/808,772, 2004 - Google Patents

... invention relates to a configuration **device** for enabling an **industrial controller** to Page 13. US 2004/0268186 AI Dec. 30, 2004 operate as an **agent** that governs ...

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### **Industrial controller** for machine tools, robots and/or production machines

R Barth - US Patent 7,206,834, 2007 - Google Patents

... Examiner—Jeffrey Pwu (74) Attorney, **Agent**, or Firm ... US 7,206,834 BI 1 **INDUSTRIAL CONTROLLER** FOR MACHINE TOOLS ... the numerical controller's display **device** can show ...

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... controller having data table interface between **agent**-type programming and non-**agent**- ...

FP Maturana, KH Hall, RJ Staron, P Slechta, V ... - US Patent App. 10/808,680, 2004 - Google Patents  
... 16, 2002 and entitled "**Agent**-Based Active Diagnostics ... simple and requires programming  
only a single **device**. ... a process with an **industrial controller** is the cost ...

[All 4 versions](#)

**Industrial controller** based on distributed technology objects

W Horn, J Birzer, T Heber, R Kram, M Kiesel - US Patent 7,561,929, 2009 - freepatentsonline.com  
... Primary Examiner: Barnes Bullock, Crystal J. Attorney, **Agent** or Firm: Weingaertner,  
Scott T. King & ... An **industrial controller** may be a separate **device** or it ...

... and methodology providing flexible and distributed processing in an **industrial controller** ...

DA Vasko, JJ Baier, RA Morse, BA Batke, J ... - US Patent 7,058,712, 2006 - Google Patents  
... Assistant Examiner — Kenny Lin (74) Attorney, **Agent**, or Firm ... O table to control a  
**device** 40 such ... Various control modules of the **industrial controller** may be ...

[All 4 versions](#)

... providing open interface and distributed processing in an **industrial controller** ...

JJ Baier, DM Callaghan - US Patent 7,151,966, 2006 - Google Patents  
... eom/pub/a/ws/2001/04/04/webservices/in- dex.html.\* (Continued) Primary  
Examiner—Leo Picard Assistant Examiner—Charles Kasenge (74) Attorney, **Agent**, or ...

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**Inductive probe controller/conductive probe emulator**

SA Walker, P It - US Patent 7,499,810, 2009 - freepatentsonline.com  
... is usable with any **industrial controller** that uses a ... an improved hardness ion complexing  
**agent**, November, 1990, ... 5722441, Electronic **device** process apparatus, March ...

**Network independent safety protocol for industrial controller**

KW Vandesteeg, DA Vasko, JA Lenner, KH ... - US Patent 6,891,850, 2005 - Google Patents  
... Examiner—Saba Tsegaye (74) Attorney, **Agent**, or Firm ... At the **industrial controller**  
12 the signals 18 may ... motor, enunciator, lamp or other **device** implementing a ...

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**System and method for interfacing multi-agent system**

P Tichy, FP Maturana, KH Hall, RJ Staron, P ... - US Patent App. 10/814,549, 2004 - Google Patents  
... 16, 2002 and entitled "**Agent**-Based Active ... that employ multiple, distinct control  
**devices** that are ... Generally, an **industrial controller** is a specialized computer ...

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**Integrated multi-agent system employing agents of different types**

FP Maturana, RJ Staron, FM Discenzo, KH Hall ... - US Patent App. 10/948,391, 2004 - Google Patents  
... 16, 2002 and entitled "**Agent**-Based Active Diagnostics ... simple and requires programming  
only a single **device**. ... pro- cess (eg, on an **industrial controller**) is the ...

[All 2 versions](#)



### Application and service management for industrial control **devices**

DM Callaghan, BA Batke... - US Patent App. 11/764,702, 2007 - Google Patents  
... ods include interfacing control **device** information with ... a control system, an **industrial controller**, a module ... an application, an intelligent **agent**, autonomous I/O ...  
[Related articles](#) - [All 4 versions](#)

### Method for licensing software

J Birzer, M Danz, A Hartinger, M Kiesel - US Patent App. 10/292,889, 2002 - Google Patents  
... can be implemented as a mobile **agent**, which allows ... link or the Internet to the **industrial controller**/control system ... a single point and/or a single **device** or at ...  
[All 2 versions](#)

### Industrial Components. MU. PIBOC Controller Series to Be Incorporated into Industrial ...

T SANO, T KATSUMATA, H YAMAKAWA, Y ... - Meiden Jiho, 2005 - sciencelinks.jp  
... the performance of PC, application of PC for **industrial controller** is becoming ... are expected to be applied to various manufacturing **devices**, terminals, medical ...  
[Cached](#)

### Instant messaging for event notification and exchanging data in an **industrial controller** ...

DM Callaghan - US Patent 7,539,724, 2009 - freepatentsonline.com  
... balancing using distributed forwarding **agents** with application ... Multi-protocol bus **device**, April, 2006, ... processing in an **industrial controller** environment, December ...  
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### Integrated Programmer Reference For Industrial Control **Device** Data

J BIZILY, S PIERCE, P TELLJOHANN, RD Law, ... - 2007 - freepatentsonline.com  
... Attorney, **Agent** or Firm: Rockwell Automation, Inc /BF ... **controller** (10), the **industrial controller** communicating with a ... data sheets describing **device** data (22 ...  
[All 3 versions](#)

### **Agent** program environment

RJ Staron, KH Hall, FP Maturana, P Tichy, P ... - US Patent App. 10/808,999, 2004 - Google Patents  
... 15, 2004 and entitled "**Agent** Program Environment", where ... simple and requires programming only a single **device**. ... a process with an **industrial controller** is the ...  
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### Intelligent self-determining I/O **device**

GM Sichner - US Patent 7,412,548, 2008 - Google Patents  
... WH Tsai Assistant Examiner—Scott Sun (74) Attorney, **Agent**, or Firm ... or down- stream (ie, away from the **industrial controller** 100) to another **device** D and/or ...  
[All 5 versions](#)

### Method and system for selecting controller output value source

SP Blech, GA Majcher, JP Caspers - US Patent 6,591,311, 2003 - Google Patents  
... Examiner—Rehana Perveen (74) Attorney, **Agent**, or Firm ... Various control modules of the **industrial controller** may be ... message from a master or peer **device** over a ...  
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... radio frequency identification (RFID) technology with **agent**-based control systems

P Vrba, F Macurek, V Marik, KH Hall, P Tichy ... - US Patent App. 10/985,173, 2004 - Google Patents

... one or more of the **agents** and/or a dedicated **agent**, for example, within a microprocessor-based **device** such as a computer, an **industrial controller**, a hardware ...

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Distributed intelligent diagnostic scheme

FP Maturana, RJ Staron, FM Discenzo, KH Hall ... - US Patent App. 11/012,818, 2004 - Google Patents

... that employs a distributed intelligent **agent** infrastructure to ... with a control program, the **industrial controller**, having an ... that interface at a **device** level to ...

[All 2 versions](#)

System and methodology that facilitate factory automation services in a distributed ...

DE Thomas, TJ Jasper, CH Bromley, NJ ... - US Patent 7,392,100, 2008 - freepatentsonline.com

... Leo. Assistant Examiner: Kasenge, Charles. Attorney, **Agent** or Firm: ... 4, the **industrial controller** 204 is called "BaggerSLC" and an HMI **device** 280 is ...

Safety network for **industrial controller** providing redundant connections on single media

KW Vandesteeg, DA Vasko, JA Lenner, KH ... - US Patent 6,631,476, 2003 - Google Patents

... Examiner—Rita A Ziemer (74) Attorney, **Agent**, or Firm ... among components of an **industrial controller** some of ... may be in a single physical **device** having one FIG ...

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Real-time test bench for traction drives controllers

G Bianchi, FC Dezza, R Manigrasso, F ... - ieeexplore.ieee.org

... State is going to notify the Italian Transport **Agency** and in this ... and its dynamical performance as measured coupling the **device** to an **industrial controller**. ...

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Virtual reality and telepresence control of robots used in hazardous environments

LE Bronisz, PC Pittman - 1996 - osti.gov

... likely continue to be an Adept **industrial controller** as used ... the United States Government or any **agency** thereof ... of the teleoperation issues for the next **device**. ...

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Diagnostic tool for retroactive assessment of industrial process performance

DJ Reichard, KS Plache - 2008 - freepatentsonline.com

... Attorney, **Agent** or Firm: Grünecker, Kinkeldey, Stockmair & ... control system 20 having an **industrial controller** that executes ... 18; a data playback **device** 26 that ...

System and methodology providing multi-tier-security for network data exchange with ...

BA Batke, JJ Baier, RA Morse, DM Callaghan - US Patent 7,536,548, 2009 - freepatentsonline.com

... Primary Examiner: Revak, Christopher A. Attorney, **Agent** or Firm ... a trust relationship between a remote **device** and the **industrial controller**, an encryption ...

Jog control for industrial control network

TM Keeley - US Patent 6,529,785, 2003 - Google Patents

... (74) Attorney, **Agent**, or Firm ... on the network to the output 40 **device** corresponding to the ... a control program executed by an **industrial controller** to supervise ...

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### Automation **device** data interface

DM Callaghan - US Patent 7,565,351, 2009 - freepatentsonline.com

... 6842779, **Agent** accessory tool cooperating with integrated ... object based interface for **industrial controller**, March, 2003, ... configuring a remote **device**, March, 2003, ...

### **Agent** simulation development environment

FP Maturana, P Vrba, RJ Staron, KH Hall, P ... - US Patent App. 11/044,233, 2005 - Google Patents

... VERSAL RUN-TIME INTERFACE FOR **AGENT**-BASED SIMULATION ... are special purpose processing **devices** used for ... facilitated by separating the **industrial controller** into a ...

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### Systems and methods that integrate radio frequency identification (RFID) technology with ...

F Macurek, P Vrba, KH Hall - US Patent 7,339,476, 2008 - Google Patents

... PCT/EP2005/007878, 8 pages. (Continued) Primary Examiner—Crystal J. Barnes (74) Attorney, **Agent**, or Firm—Amin Turocy & Calvin LLP; William R. Walbrun (57 ...

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### System and methodology that facilitates client and server interaction in a distributed ...

DE Thomas, TJ Jasper, CH Bromley, NJ ... - US Patent 7,308,473, 2007 - Google Patents

... Charles Kasenge (74) Attorney, **Agent**, or Firm ... change notification exemplary **industrial controller** environment in ... illustrating a network **device** topology relevant ...

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### ... facilitating remote and automated maintenance procedures in an **industrial controller** ...

DR Wylie, JJ Baier, DM Callaghan - US Patent 7,203,560, 2007 - Google Patents

... Thomas K. Pham (74) Attorney, **Agent**, or Firm ... facilitate remote maintenance within an **industrial controller** receiving an ... I/O table to control a **device** environment ...

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### TILT-RING PNEUMATIC CONTROL **DEVICE**

US Patent 3,515,162, 1970 - Google Patents

... HOEL L. BOWDITCH GEORGE F. WILLIAMS RICHARD A. BERTONE **AGENT** Page 2. ... ' A pneumatically operated **industrial controller** from which the **device** of this ...

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### SOFTWARE LICENSE MANAGER

J Birzer, M Danz, A Hartinger, M Kiesel - US Patent App. 11/466,980, 2006 - Google Patents

... can be implemented as a mobile **agent**, which allows ... the software module is installed on a **device** or a ... for motion control in an **industrial controller**, does not ...

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### License manager

J Birzer, M Kiesel, A Hartinger - US Patent App. 10/276,604, 2002 - Google Patents

... can be implemented as a mobile **agent**, which allows ... the software module is installed on a **device** or a ... for motion control in an **industrial controller**, does not ...

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### Alarm/event encryption in an industrial environment

KH Hall, K Tambascio, JJ Baier, EG Dorgelo, ... - 2008 - freepatentsonline.com  
... Attorney, **Agent** or Firm: Englaender, Klaus (HML Patent and ... related to field **devices**  
of an **industrial controller** system ... 200 can include a field **device** 202 having ...

### ... and method of powering and communicating field ethernet **device** for an instrumentation and ...

S Keyghobad, W Baker, R Thibault - US Patent 6,640,308, 2003 - Google Patents  
... Nitin C. Patel (74) Attorney, **Agent**, or Firm—Fish & Richardson PC (57) ABSTRACT  
A powered Ethernet connection is provided between two **devices** connected by an ...  
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### ... facilitating data warehousing of controller images in a distributed **industrial controller** ...

AS Grewal, JL Hamilton - US Patent 7,222,131, 2007 - Google Patents  
... WAREHOUSING OF CONTROLLER IMAGES IN A DISTRIBUTED **INDUSTRIAL CONTROLLER** ENVIRONMENT  
(75 ... Assistant Examiner—Hassan Tony Mahmoudi (74) Attorney, **Agent**, or Firm ...  
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### System performance monitoring system

JR Carroll, AV Augis, J Erinc, JJ Jacko, LE ... - US Patent 7,373,267, 2008 - Google Patents  
... Examiner—Tung S. Lau (74) Attorney, **Agent**, or Firm ... a process system control-  
ler or **industrial controller** 14 that ... or any other process system **device** where the ...  
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### System and methodology providing network data exchange between industrial control ...

JJ Baier, DF McEldowney - US Patent 7,330,473, 2008 - Google Patents  
... Kevin C. Harper (74) Attorney, **Agent**, or Firm ... and/or information network in an  
**industrial controller** environment. ... to a plurality of local network **devices** in the ...  
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### Method and apparatus for synchronizing an **industrial controller** with a redundant controller

KH Hall, RE Schultz - US Patent 7,340,574, 2008 - Google Patents  
... Examiner—Reba I. Elmore (74) Attorney, **Agent**, or Firm ... flow diagrams of methods used  
by the **industrial controller** of FIG ... portion of a memory of any **device** is to ...  
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### Integration of control and business applications using integration servers

DM Callaghan... - US Patent App. 11/020,371, 2004 - Google Patents  
... a special purpose processing **device** for controlling ... exemplary an exemplary **industrial**  
**controller** in accordance ... component," "adapter," "**agent**," "module," "system ...  
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### Bus isolator for industrial control system providing intrinsically safe operation

MW Kessler, RD Slater, H Wieth, I Kurkovskiy ... - US Patent 6,154,679, 2000 - Google Patents  
... Examiner—Kidest Bahta Attorney, **Agent**, or Firm ... the present invention provides an  
**industrial controller** reading inputs from an industrial **device** and providing ...  
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Low voltage industrial control system providing intrinsically safe operation

MW Kessler, RD Slater, RJ Kretschmann, M ... - US Patent 6,154,683, 2000 - Google Patents  
... Examiner—Mackly Monestime Attorney, **Agent**, or Firm ... present invention provides an  
**industrial controller** reading inputs from an industrial **device** and providing ...  
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Component loader for industrial control **device** providing resource search capabilities

RW Sprecher, TL Heidebrecht, DE Thomas, ... - US Patent 6,948,059, 2005 - Google Patents  
... Paul Yanchus, III (74) Attorney, **Agent**, or Firm ... program, the industrial control **device**  
and compatibility of those **industrial controller** examines a ...  
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**Industrial controller**

Y Samed, H Nakatani, A Sawada, J Takehara, ... - 2008 - freepatentsonline.com  
... G06F7/48. Attorney, **Agent** or Firm: OBLON, SPIVAK ... 40 and residing in the **industrial**  
**controller** is allowed to ... Previous Patent: Method and **Device** for Calculating a ...  
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A Hartinger, M Kiesel - US Patent App. 10/276,605, 2002 - Google Patents  
... link or the Internet to the **industrial controller**/control system or ... can be associated  
with a single **device** of the ... manager can be implemented as a mobile **agent**. ...  
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